

AMENDMENTS TO THE CLAIMS

Please amend the Claims as follows. Insertions are shown underlined while deletions are ~~struck through~~.

1 (currently amended): Offset paper for offset printing ~~wherein comprising:~~
base paper for offset printing; and

a coating layer provided on the base paper, said coating layer comprising (i) an inorganic surface preparation agent which is an alkaline dispersion liquid comprising silica sol or colloidal silica~~containing ultra-fine silica particles~~ having a particle size of less than 100 nm; and (ii) a pigment consisting of an inorganic pigment~~is provided on base paper for offset printing.~~

2 (canceled)

3 (currently amended): The offset paper of Claim 21, wherein the ratio of the inorganic pigment to the inorganic surface preparation agent is 5 to 50wt.%.

4 (currently amended): The offset paper of Claim 21, wherein the inorganic pigment is selected from the group consisting of titanium oxide, calcium carbonate and white carbon.

5 (currently amended): The offset paper of Claim 21 wherein the inorganic surface preparation agent further comprises a surface-sizing agent.

6 (previously amended): The offset paper of Claim 5, wherein the ratio of the surface-sizing agent to the colloidal silica or silica sol is 5 to 30wt.%.

7 (currently amended): The offset paper of Claim 6, wherein the surface-sizing agent is selected from the group consisting of styrene-acrylic acid copolymer, alkyd resin, styrene-maleic acid copolymer and olefin-maleic acid copolymer.

8 (previously amended): The offset paper of Claim 5, wherein the inorganic surface preparation agent comprises 5 to 40 parts by weight of titanium oxide to 100 parts by weight of the colloidal silica or silica sol.

9 (currently amended): The offset paper of Claim 21, wherein the inorganic surface preparation agent comprises an organic binder.

10 (previously amended): The offset paper of Claim 1, wherein the inorganic surface preparation agent comprises an inorganic salt.

Appl. No. : 10/069,429
Filed : June 10, 2002

11 (previously amended): The offset paper of Claim 10, wherein the inorganic salt is sodium sulfate or sodium nitrate.

12 (previously amended): The offset paper of Claim 10, wherein the addition ratio of the inorganic salt is 5 to 250 parts by weight to 100 parts by weight of the colloidal silica or silica sol.

13 (previously amended): The offset paper of Claim 10 further comprising a surface-sizing agent.

14 (currently amended): The offset paper of Claim 13 wherein the surface-sizing agent is selected from the group consisting of styrene-acrylic acid copolymer, alkyd resin, styrene-maleic acid copolymer, and olefin-maleic acid copolymer.

15 (previously amended): The offset paper of Claim 10, further comprising an organic binder.

16 (previously amended): The offset paper of Claim 15, wherein the organic binder is oxidized starch or cationic polyacrylamide.

17 (previously amended): The offset paper of Claim 10 further comprising an organic binder and a surface-sizing agent.

18 (previously amended): The offset paper of Claim 10, wherein the inorganic surface preparation agent comprises an organic binder, a surface-sizing agent and titanium oxide; and wherein the ratio of the titanium oxide is 5 to 40 parts by weight to 100 parts by weight of the solid content of the colloidal silica or silica sol.

19 (previously amended): The offset paper of Claim 1, wherein the base paper for offset printing is a newsprint paper having basis weight from about 37 g/m² to about 45 g/m².

20 (new): The offset paper of Claim 10, wherein the colloidal silica is a colloidal solution of 10-20 nm using sodium silicate reacted with an inorganic acid, wherein the (inorganic) salt is a product of the reaction. *having particle size of 10-20 nm*

21 (new): The offset paper of Claim 1, wherein the coating layer is applied in an amount of 0.1-1.0 g/m² per both sides.

22 (new): The offset paper of Claim 1, wherein the coating layer is applied in an amount of 0.3-1.0 g/m² per both sides.

23 (new): Offset paper for offset printing comprising:
base paper for offset printing; and

Appl. No. : 10/069,429
Filed : June 10, 2002

a coating layer provided on the base paper, said coating layer comprising an inorganic surface preparation agent comprising (i) silica sol or colloidal silica and (ii) an inorganic salt selected from the group consisting of sodium sulfate and sodium nitrate.

24 (new): The offset paper of Claim 23, wherein the addition ratio of the inorganic salt is 5 to 250 parts by weight to 100 parts by weight of the colloidal silica or silica sol.

25 (new): The offset paper of Claim 23, further comprising an organic binder selected from oxidized starch or cationic polyacrylamide.

26 (new): The offset paper of Claim 23, wherein the base paper for offset printing is a newsprint paper having basis weight from about 37 g/m² to about 45 g/m².

B1
cancel